



SCOTT A. THOMPSON  
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

KEVIN STITT  
Governor

June 6, 2019

**CERTIFIED MAIL RETURN RECEIPT REQUESTED**

Mr. Troy Duke, Director, Solid Waste Services  
SORD Landfill  
P.O. Box 1088  
Ardmore, Oklahoma 73402

Re: Proposed Tier III Solid Waste Permit Modification  
SORD Landfill  
Carter County  
Permit Number 3510007

Dear Mr. Duke:

The Oklahoma Department of Environmental Quality (DEQ) issued a "Draft Permit Modification" for the above referenced Tier III application for review by the applicant and the public. The applicant published legal notice of the "Draft Permit Modification" in the *Ardmoreite* on April 16, 2019. This notice provided the opportunity for public comments on the application and "Draft Permit", as well as an opportunity to request a public meeting. The public comment period ended on May 16, 2019. No comments were received and a public meeting was not requested.

Pursuant to Oklahoma Administrative Code (OAC) 252:4, DEQ is issuing a "Proposed Permit Modification" and a copy is enclosed with this letter. Legal notice of the "Proposed Permit Modification" that provides the opportunity to request an administrative hearing shall be published in a local newspaper. A draft legal notice was submitted to DEQ via email on May 31, 2019 and approved on June 4, 2019.

Within 20 days after date of publication, please provide DEQ with a written affidavit certifying publication of the legal notice as required by OAC 252:4-7-13(d). Should you have any questions or require additional information, please contact Martha Grafton at (405) 702-5144.

Sincerely,

Hillary Young, P.E.  
Chief Engineer  
Land Protection Division

HY/mg

Enclosure

cc: Wade Miller, SCS Engineers



# PROPOSED SOLID WASTE PERMIT MODIFICATION

The Oklahoma Department of Environmental Quality (DEQ) hereby approves the following permit modification:

**Permit Number: 3510007**

**Facility: Southern Oklahoma Regional Disposal (SOR) Landfill**

**Facility Type: Municipal Solid Waste Landfill**

**County: Carter County**

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**Modification:** Lateral expansion that will increase the permit boundary from 120 acres to 200 acres, revise previously permitted base grade designs for Cells 3-6, establish base grade designs for the new area and permit a leachate storage impoundment. Current waste disposal area consists of 65.84 acres of which 43.2 acres have been developed with pre-Subtitle D liner and 22.64 acres with Subtitle D composite liner. Cell 3 will be 16.9 acres, Cell 4 and 5 will be 15.6 acres each and Cell 6 will be 15.9 acres. The current waste design capacity is 8,034,959 cubic yards. The lateral expansion will increase the waste disposal capacity by 15,261,128 cubic yards to a total of 23,296,087 cubic yards. The proposed leachate storage impoundment will be constructed with a composite liner and have a capacity with 3 feet of freeboard of 3,327,118 gallons. No variances were requested.

## **Incorporated By Reference:**

The application stamped by Floyd E. Cotter, P.E., on April 30, 2018, the Notice of Deficiency (NOD) dated November 5, 2018 and the response to NOD dated December 14, 2018, are considered approved and are incorporated as part of this permit modification.

## **Modification Conditions:**

1. Stormwater management at the site is subject to DEQ Water Quality Division Sector L Industrial General Permit OKR05 (Authorization No. OKR050819) which requires a stormwater Pollution Prevent Plan (SWP3). The SWP3 will be amended as surface water drainage and outfall locations are modified. The existing stormwater impoundment located in the northwest corner of the facility with a storage capacity of 1,489,874 cubic feet will be expanded to handle the 24-hour, 25-year single storm event. According to agreement between SORD and the U.S. Army Corps of Engineers, SORD may expand the facility's current stormwater impoundment; however the impoundment may not be reduced without authorization from the U.S. Army Corps of Engineers.
2. The current groundwater monitoring network will be modified. Monitor wells MW-2R, MW-4 and MW-5 will be removed and plugged, while six (6) new monitor wells (MW-6 through MW-11) are proposed. Existing piezometer PZ-9 will become MW-9 and existing

piezometer PZ-5 will become MW-11; all other new monitor wells will be installed according to OAC 252:515-7-3 and OWRB requirements in OAC 785:35. Four (4) quarters of statistically independent data are required to be collected for each constituent in accordance with OAC 252:515-9-31 to establish background groundwater quality at each new monitor well.

3. The landfill has a gas collection and control system operated under a Title V Clean Air Act permit (No. 2012-311-TVR2) issued through the Air Quality Division of DEQ. The system will be modified during the expansion according to permit requirements.
4. The perimeter gas monitoring system will be modified. Ten additional gas probes (GMW-18 through GMW-27) will be installed according to OAC 252:515-15-4 and OWRB requirements in OAC 785: 35. Fourteen (14) existing gas probes will remain in place and three (3) will be decommissioned (GMW-12 through GMW-14).
5. A composite liner will be constructed in accordance with the approved QA/QC plan and will consist of the following layers from bottom to top:
  - a. 24-inches of compacted clay (hydraulic conductivity less than or equal to  $1 \times 10^{-7}$  cm/s),
  - b. 60-mil high density polyethylene geomembrane liner (smooth on floor and double sided textured on slope),
  - c. 8-oz non-woven geotextile fabric cushion layer, and
  - d. 24 inches of granular drainage / protective cover material (hydraulic conductivity greater than or equal to  $1 \times 10^{-3}$  cm/s) or 5 feet uncompacted select waste substituting for 1 foot of granular protective cover. The granular drainage material shall be certified in the liner installation and resting report (LIT) prior to DEQ approval to begin accepting waste and the uncompacted select waste (if used) will be certified prior to DEQ approval of normal waste operations.
6. The leachate collection system will consist of: the collection pipe network protected with 8-oz woven geotextile and 24 inches of granular material, leachate collection sumps and associated pumping system, and a 2-acre leachate evaporation pond. The proposed leachate evaporation impoundment will be constructed with a composite liner in accordance with OAC 252:515-13-31 and the QA/QC plan. The leachate impoundment will maintain a minimum of 3 feet of freeboard with a capacity of 3,327,118 gallons and service Cells 3 through 6. Leachate will be pumped and transported to the impoundment through a dual contained force main. Stored leachate may be re-circulated and / or irrigated in accordance with their approved plans.
7. The landfill is permitted to accept municipal solid waste, non-hazardous industrial waste, construction / demolition waste, Class B biosolids that pass the paint filter test, and non-friable asbestos containing materials. The landfill may accept liquid waste that will be

bulked to pass the paint filter test prior to disposal according to the approved operations plan, WEP and Bulking Plan. SORD conducts salvage and recycling according to the approved plan. SORD may not accept PCB-containing waste in excess of 50 ppm PCBs, radioactive waste, and untreated infectious biomedical waste.

8. Wet Weather management: Soil material from the borrow area or an approved Alternative Daily Cover (ADC), i.e., foundry sand, tire chips and posi-shell plus extreme rain shield, will be utilized to meet daily cover requirements during wet weather. The ADC shall not be used for more than six (6) consecutive days without placing six (6) inches of earthen cover on the seventh day. Six (6) inches of earthen material must be used instead of any ADC if the working face will remain unused for more than 24 hours.
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**The permittee is authorized to operate in conformity with the application described above. Commencing operations under this permit modification constitutes acceptance of, and consent to, the conditions contained herein.**

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Hillary Young, P. E., Chief Engineer  
Land Protection Division

Date: \_\_\_\_\_

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Kelly Dixon, Division Director  
Land Protection Division

Date: \_\_\_\_\_

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Scott A. Thompson, Executive Director  
Department of Environmental Quality

Date: \_\_\_\_\_